

CLAIM(S)

What is claimed is :

5. 1. A process for repairing coated substrate surfaces comprising the following successive steps:

- a) optionally preparing a blemished area to be repaired,
- b) providing a backing film coated on one side with an uncured or at least partially cured coating layer of a coating composition curable by means of high energy radiation,
10. c) applying the backing film with its coated side onto the blemished area to be repaired,
- d) irradiating the coating applied in this manner onto the blemished area to be repaired with high energy radiation and
15. e) removing the backing film, wherein the coating is irradiated through the backing film and/or after removing the backing film.

2. The process according to claim 1, wherein the coating is irradiated through the backing film.

20. 3. The process according to claim 1, wherein the coating is irradiated by initially performing partial curing by irradiation through the backing film and, after removing the backing film, performing further irradiation to complete the 25. cure.

4. The process according to claim 1, wherein the uncured or at least only partially cured coating layer in step b) comprises a coating layer with a tacky surface.

30. 5. The process according to claim 1, wherein the coating composition curable by means of high energy radiation comprises a coating composition with free-radically polymerizable binders.

35. 6. The process according to claim 1, wherein in step b) a backing film with a protective film on one or both sides is provided.

7. The process according to claim 1, wherein the backing film of step c) is applied under pressure.

8. The process according to claim 1, wherein the backing film of step c) is applied under pressure and heat.

5 9. The process according to claim 1, wherein the irradiation of the coating applied onto the blemished area to be repaired is performed with UV radiation of a wavelength range of 180-400 nm.

10 10. The process according to claim 1 in which the coated substrate surfaces repaired have small blemished areas.

11. The process according to claim 1 in which the coated substrate surfaces repaired are automotive or industrial coatings.